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APPLICATION NO.	FII	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/473,080	1	2/28/1999	TOSHIHIRO SUGIURA	ADACHI-P181U	9575
20210	7590	06/09/2003			·
DAVIS & E		P.L.L.C.	EXAMINER		
FOURTH FL 500 N. COM	MERCIA		NALEVANKO, CHRISTOPHER R		
MANCHESTER, NH 03101-1151				ART UNIT PAPER NUMBER	
				2611	λ
				DATE MAILED: 06/09/2003	0

Please find below and/or attached an Office communication concerning this application or proceeding.

	1	Application	No.	Applicant(s)				
	,	09/473,080		SUGIURA ET AL.				
Office Act	ion Summary	Examiner		Art Unit				
			R Nalevanko	2611				
	ATE of this communica	tion appears on the c	over sheet with the c	orrespondence ad	dress			
Period for Reply		DEDLY 10 CET TO	EVDIDE 2 MONTH/	e) EDOM				
THE MAILING DATE - Extensions of time may be a after SIX (6) MONTHS from - If the period for reply specification of the period for reply is period for reply is period for reply is period for reply within the second of the period for reply within the second for reply received by the Office armed patent term adjustment	TUTORY PERIOD FOR OF THIS COMMUNICA vailable under the provisions of 3 the mailing date of this communited above is less than thirty (30) diffied above, the maximum statute to rextended period for reply will flice later than three months after ent. See 37 CFR 1.704(b).	ATION. FOR 1.136(a). In no event cation. ays, a reply within the statute ory period will apply and will the statute cause the application.	however, may a reply be time by minimum of thirty (30) days expire SIX (6) MONTHS from ation to become ABANDONE	nely filed s will be considered time? the mailing date of this co	y. ommunication.			
Status	(s) filed	on 10 March 2003						
,	communication(s) filed							
2a)⊠ This action is I		·—		resecution as to th	na marite is			
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
Disposition of Claims	/are pending in the app	dication						
•	e claim(s) 🥰 is/are wit		eration.					
—		Haratti Hom oonola						
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6)⊠ Claim(s) <u>4-7</u> is/								
/ 	is/are objected to. are subject to restriction	on and/or election re	nuirement					
Application Papers	are subject to restricted	of analor election to	qui omon.					
• •	n is objected to by the E	Examiner.						
	filed on is/are: a		objected to by the Exa	miner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.								
If approved, corrected drawings are required in reply to this Office action.								
12) The oath or declaration is objected to by the Examiner.								
Priority under 35 U.S.C	. §§ 119 and 120							
13)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
•	me * c) None of:							
•	copies of the priority d	ocuments have beer	received.					
	copies of the priority d			ion No				
Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.								
					at application)			
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) ☐ The translation of the foreign language provisional application has been received.								
a)	ation of the foreign lang nt is made of a claim fo	r domestic priority u	nder 35 U.S.C. §§ 12	0 and/or 121.				
Attachment(s)								
1) Notice of References Ci 2) Notice of Draftsperson's 3) Information Disclosure S	ted (PTO-892) : Patent Drawing Review (PT Statement(s) (PTO-1449) Pal	O-948) per No(s)		ry (PTO-413) Paper N Patent Application (P				
I.S. Patent and Trademark Office								

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DETAILED ACTION

Response to Arguments

Applicant's arguments regarding Claims 4, 6 and 7 filed on 03/03/03 have been fully 1. considered but they are not persuasive. Applicant argues (Amendment A page 7 lines 21) that 'the wired broadcasting system of Stern et al. does not divide the addressable taps into receiving districts and does not provide a power supply for each receiving district.' Furthermore, Applicant argues (Amendment A page 8 line 2) 'Stern does not and cannot have 'districts' because a district defined in the present Application and the claims thereof as a unit or division of the system having its own power supply and a plurality of tap devices served by that power supply.' Applicant also argues (Amendment A page 8 line 23) 'Stern does not have, teach or suggest a division of the system into districts, each district having one or more tap devices and a single power supply that is independent from the center equipment.' Stern clearly shows a power supply that supplies power to a plurality of taps (see figure 1a item 2 'power unit', col. 5 lines 20-30, 60-63). Stern shows 'a number of taps maybe serially connected along a single line if desired. Thus each control center can program a plurality of power supply units 2 and each power supply unit can in turn transmit commands to a plurality of addressable tap units 3, each tap unit serving one or more subscribers.' In Stern, the power unit 2 supplies power to the transmission line. This power is extracted from the line by power supply 3 of the 'addressable tap.' Further 'addressable taps' are supplied power from the power unit 2 when the signal, RF and power, is divided at directional tap 112. Furthermore, it is shown in figure 1a that a plurality of power units 2 can provide power

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to a number of 'districts' as explained by the applicant (see figure 1a where the branching of the RF signals is sent to other power units 2).

2. Applicant's arguments with respect to claim 5 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 4, 6 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Stern et al.

Regarding Claim 4, Stern shows a cable broadcasting system comprising a center equipment for transmitting broadcast signals on a transmission line, and a controller for transmitting command signals for controlling distribution of the broadcast signals to broadcast signal receiving terminals (col. 4 lines 60-68, col. 5 lines 1-14, see figure 1a 'head end control', 'encoder', 'RF tv program signal source), and at least one receiving district, each receiving district including a plurality of tap devices connected from the transmission line for distributing the broadcast signals from the transmission line to the broadcast signal receiving terminals (col. 5 lines 20-28, 45-48, 60-63, see fig. 1a items 2 and 3), and a district power supply connected from a power source and providing a power signal through the transmission line to the tap devices of the receiving district (col. 5 lines

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20-28, see fig. 1a item 2 'power unit'). Stern further shows that each tap device includes at least one switchable path for distributing the broadcast signal (col. 5 lines 28-32, see fig. 1a items 40a-c), at least one control relay in each tap path for controlling connection of the tap path to the broadcast signal receiving terminal (col. 5 lines 28-32, see fig. 1a items 40a-c), a tap control connected from the transmission line and responsive to the command signals for controlling the relays (see fig. 1a item 35 'tap logic'), and a tap device power supply connected from the power signal on the transmission line and providing power to the tap (see fig. 1a item 120 'power supply'). Stern fails to specifically state that in a sequence of command signals to the control relays, successive command signals are transmitted to different receiving districts. Official Notice is taken that it is well known and obvious in the art to stagger the command signals so that multiple switches on one tap are not switched in the same sequence. It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Stern to stagger the command signals so as to not overload the power supply of a single tap with multiple commands to switch a relay.

Regarding Claim 6, Stern further shows a directional coupler connected from the transmission line for branching connection of the broadcast signal from the transmission line to each of the tap paths (col. 7 lines 48-61, see fig. 1a 'directional tap'). Stern also shows at least one control relay on each tap path is controllable through the tap control and by command signals to switchably connect the tap path into one of an on state and an off state (col. 2 lines 43-58, col. 3 lines 50-65, col. 5 lines 27-3265-67, see figure 1a items 35 'tap logic' and 40a-c).

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Regarding Claim 7, Stern shows a plurality of switchable tap paths (see fig. 1a 'directional tap' and items 40a-c). Stern further shows a directional coupler connected from the transmission line for branching connection of the broadcast signal from the transmission line to each of the tap paths (col. 7 lines 48-61, see fig. 1a 'directional tap'). Stern also shows at least one control relay on each tap path is controllable through the tap control and by command signals to switchably connect the tap path into one of an on state and an off state (col. 2 lines 43-58, col. 3 lines 50-65, col. 5 lines 27-3265-67, see figure la items 35 'tap logic' and 40a-c). Finally, Stern shows the tap control controls the control relays of a plurality of tap paths of a tap device, the tap control controls each control relay to switchably connect each tap path into one of an on state and an off state (col. 2 lines 43-58, col. 3 lines 15-30, col. 4 lines 60-67, see fig. 1a item 35 'tap logic'). Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Stern et al in

4. further view of Kato et al.

Regarding Claim 5, Stern fails to show that a command signal will be sent to a tap device in the receiving district only after an operating time required for the tap device in the receiving district to complete execution of the preceding command has elapsed. Kato shows the ability of a command sequence to wait an elapsed time to ensure that the preceding command instruction has executed before executing the next command (col. 28 lines 1-21, col. 29 lines 35-62). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Stern with the command signal waiting time of Kato so that another command signal was not sent to the same time, possibly damaging the electronics of the tap.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher R Nalevanko whose telephone number is 703-305-8093. The examiner can normally be reached on M-F 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew Faile can be reached on 703-305-4380. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9314 for regular communications and 703-872-9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.

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Christopher Nalevanko 703-305-8093 AU 2611

cn

May 29, 2003

ANDREW FAILE SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600